

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102414\
 Data File : BE088231.D
 Acq On : 25 Oct 2014 4:27
 Operator : TP/JJ
 Sample : F4368-20
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS43-1014

Manual Integrations
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mohammad
 10/28/2014 12:23:03 PM

Quant Time: Oct 27 14:05:24 2014
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE102414.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 27 13:04:40 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.11	152	31080	5.00	ng	0.00
3) Naphthalene-d8	8.68	136	119485	5.00	ng	0.00
7) Acenaphthene-d10	10.83	164	64868	5.00	ng	0.00
12) Phenanthrene-d10	12.94	188	136586	5.00	ng	0.00
16) Chrysene-d12	18.34	240	79251	5.00	ng	0.00
22) Perylene-d12	21.40	264	62027	5.00	ng	0.00
System Monitoring Compounds						
4) Nitrobenzene-d5	7.81	82	392480	43.48	ng	0.01
8) 2-Fluorobiphenyl	10.02	172	509162	28.15	ng	0.00
18) Terphenyl-d14	16.13	244	476154	36.69	ng	0.02
Target Compounds						Qvalue
5) Naphthalene	8.70	128	7970	0.33	ng	99
6) 2-Methylnaphthalene	9.55	142	9448	0.64	ng	99
9) Acenaphthylene	10.64	152	76568	0.79	ng	100
10) Acenaphthene	10.86	154	12511	0.82	ng	97
11) Fluorene	11.52	166	15073	0.96	ng	99
13) Phenanthrene	12.97	178	118997	0.90	ng	94
14) Anthracene	13.06	178	97240	1.00	ng	99
15) Fluoranthene	15.21	202	22507	1.13	ng	99
17) Pyrene	15.66	202	23281	1.07	ng	100
19) Benzo(a)anthracene	18.33	228	69497	1.11	ng	99
20) Chrysene	18.40	228	71923	1.02	ng	99
21) Indeno(1,2,3-cd)pyrene	23.57	276	42679m	0.79	ng	
23) Benzo(b)fluoranthene	20.64	252	13086	1.13	ng	100
24) Benzo(k)fluoranthene	20.70	252	16930	1.06	ng	100
25) Benzo(a)pyrene	21.28	252	12133	1.07	ng	99
26) Dibenzo(a,h)anthracene	23.67	278	8433	0.86	ng	99
27) Benzo(g,h,i)perylene	24.19	276	41764	0.84	ng	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

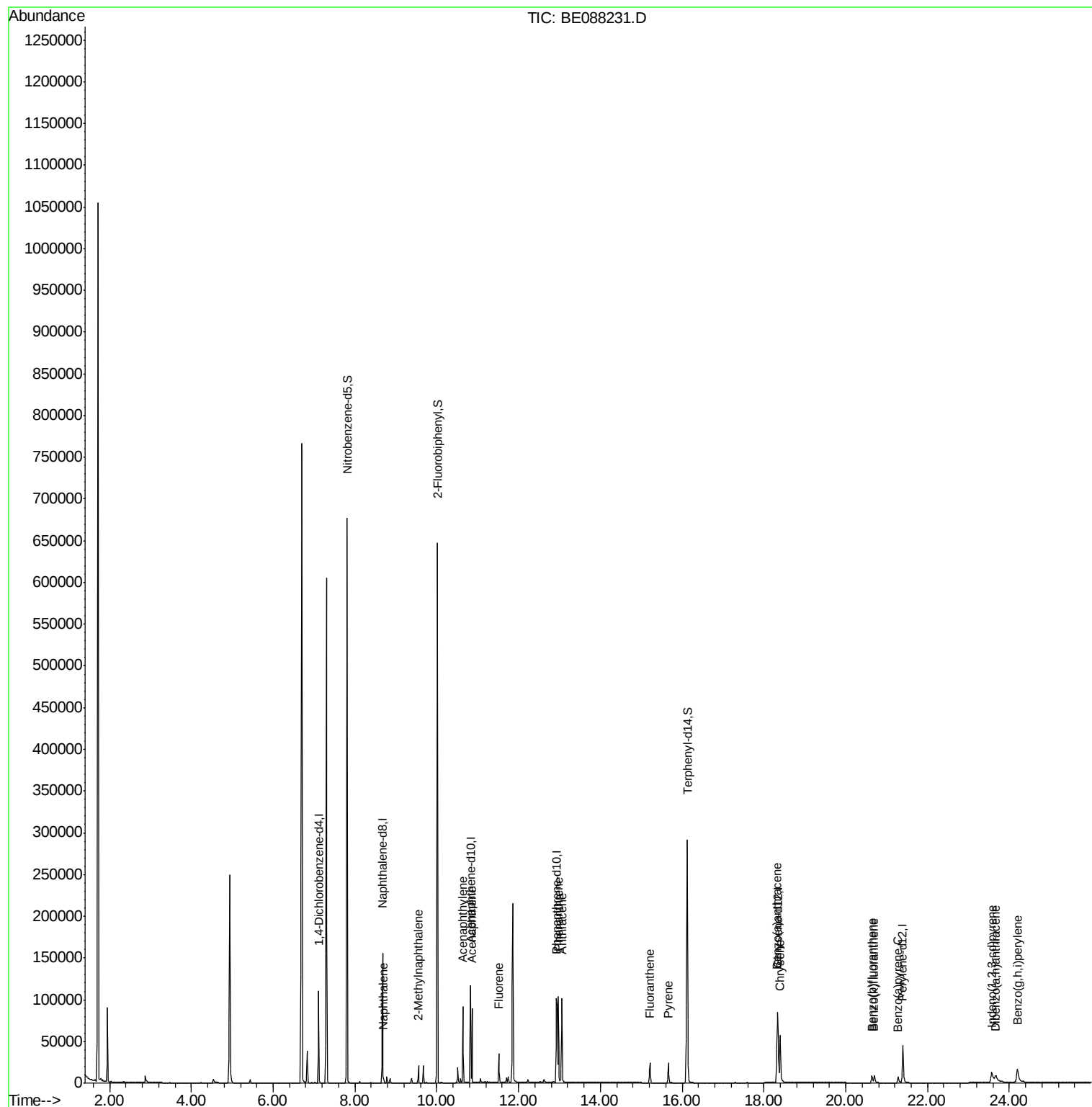
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102414\
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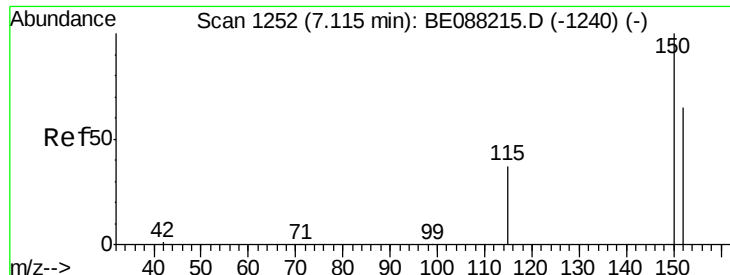
Instrument :
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.11 min Scan# 1252

Delta R.T. -0.00 min

Lab File: BE088231.D

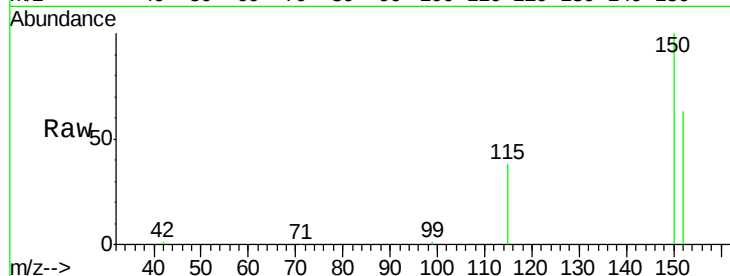
Acq: 25 Oct 2014 4:27

Instrument :

BNA_E

ClientSampleId :

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Tgt Ion:152 Resp: 31080

Ion Ratio Lower Upper

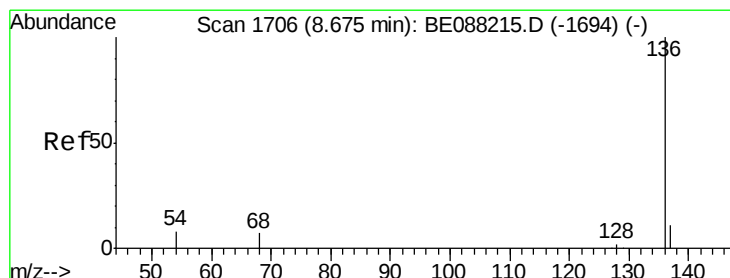
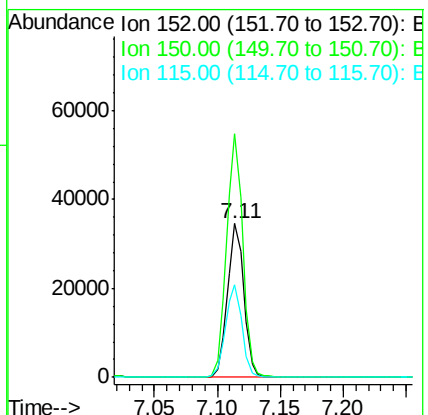
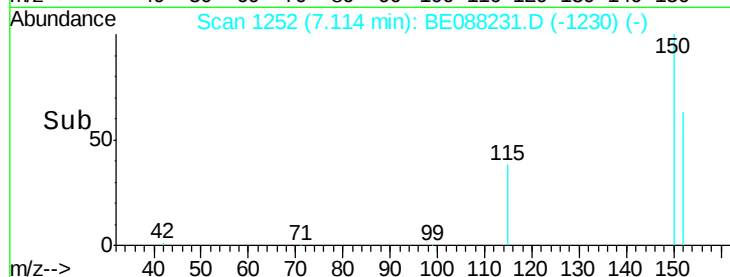
152 100

150 158.6 123.2 184.8

115 60.3 45.3 67.9

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#3

Naphthalene-d8

Concen: 5.00 ng

RT: 8.68 min Scan# 1707

Delta R.T. 0.00 min

Lab File: BE088231.D

Acq: 25 Oct 2014 4:27

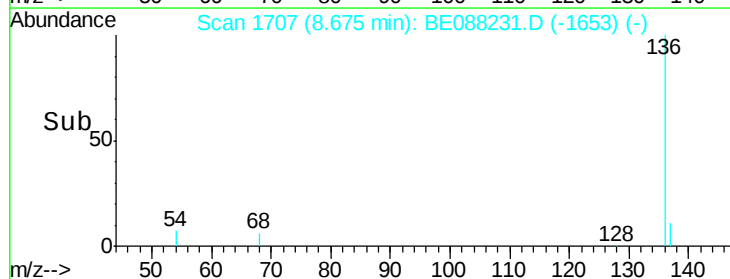
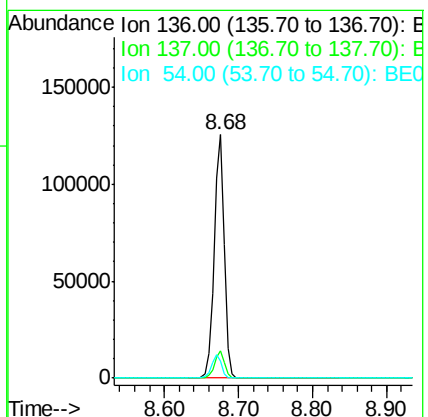
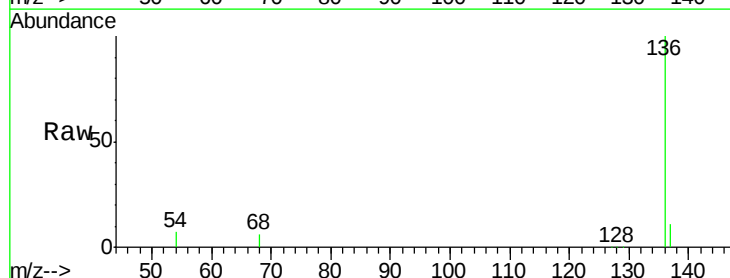
Tgt Ion:136 Resp: 119485

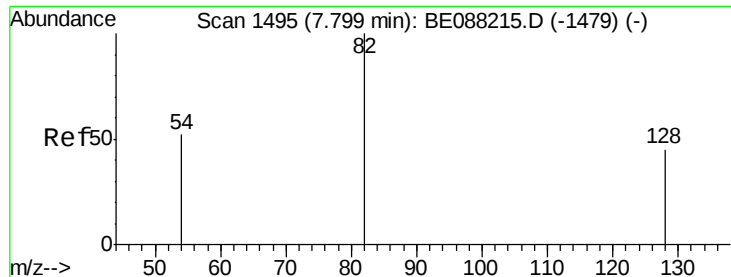
Ion Ratio Lower Upper

136 100

137 11.0 8.7 13.1

54 6.9 6.1 9.1





#4

Nitrobenzene-d5

Concen: 43.48 ng

RT: 7.81 min Scan# 1500

Delta R.T. 0.01 min

Lab File: BE088231.D

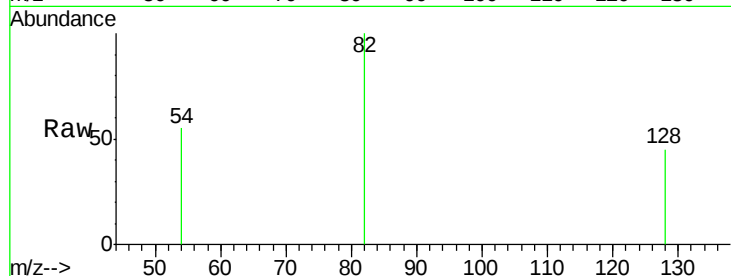
Acq: 25 Oct 2014 4:27

Instrument :

BNA_E

ClientSampleId :

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Tgt Ion: 82 Resp: 392480

Ion Ratio Lower Upper

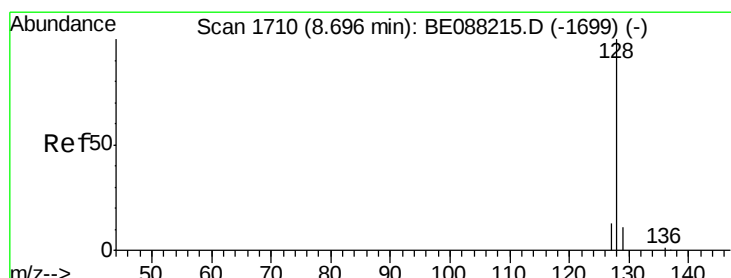
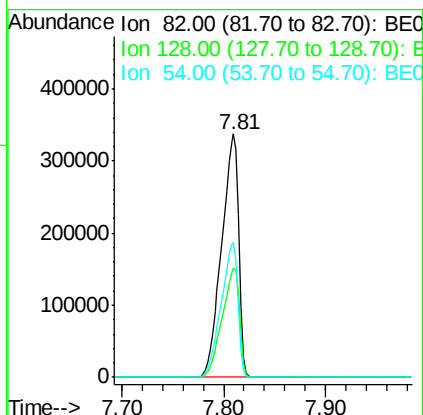
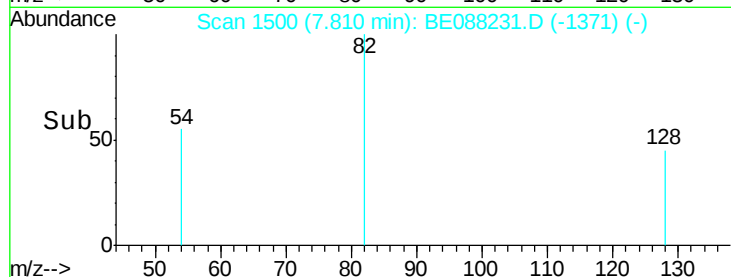
82 100

128 45.0 36.2 54.2

54 55.5 41.8 62.8

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#5

Naphthalene

Concen: 0.33 ng

RT: 8.70 min Scan# 1711

Delta R.T. 0.00 min

Lab File: BE088231.D

Acq: 25 Oct 2014 4:27

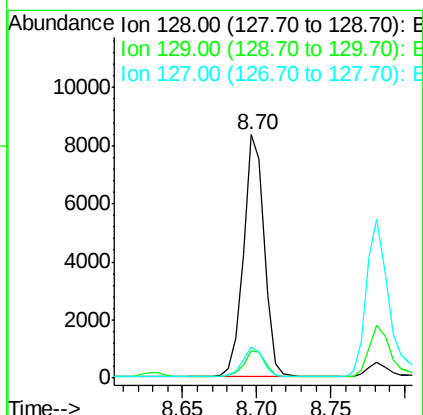
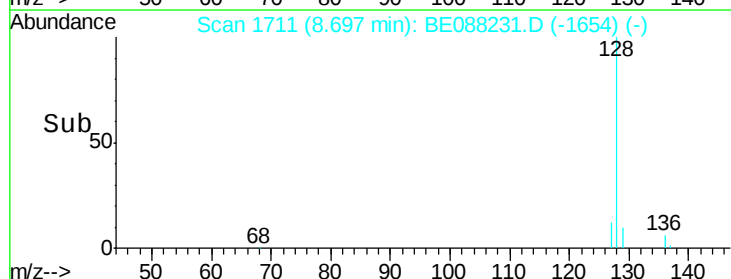
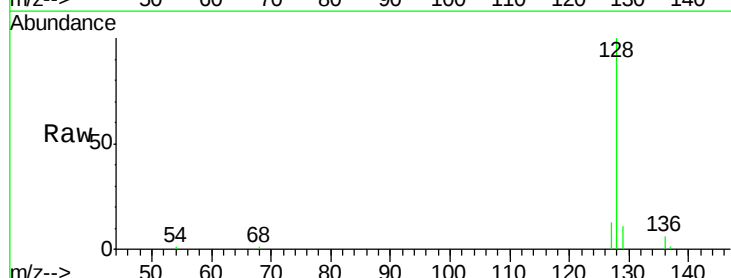
Tgt Ion: 128 Resp: 7970

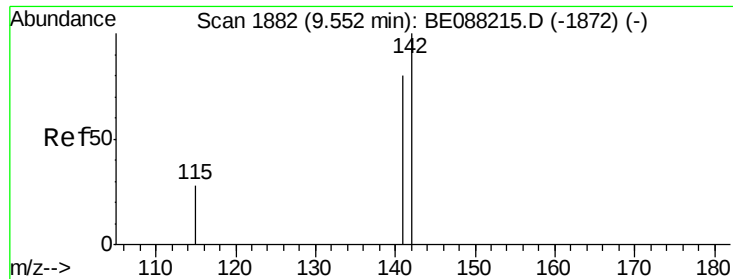
Ion Ratio Lower Upper

128 100

129 11.1 8.6 12.8

127 12.9 10.4 15.6





#6

2-Methylnaphthalene

Concen: 0.64 ng

RT: 9.55 min Scan# 1883

Delta R.T. 0.00 min

Lab File: BE088231.D

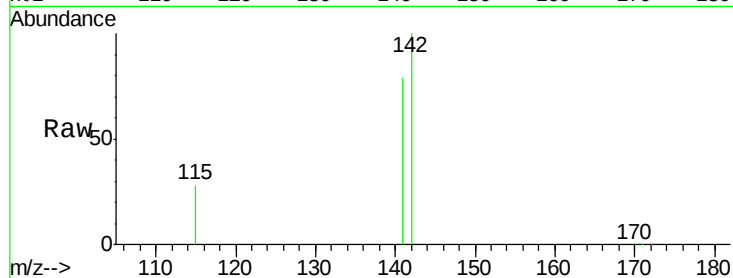
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Instrument :

BNA_E

ClientSampleId :

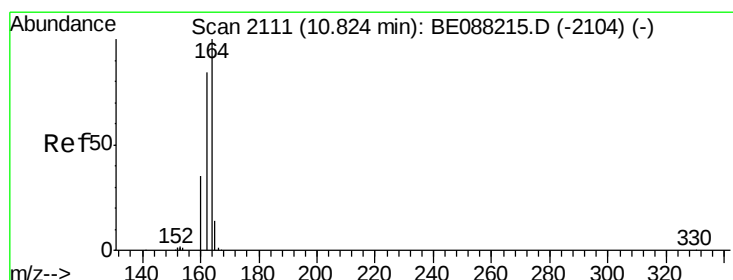
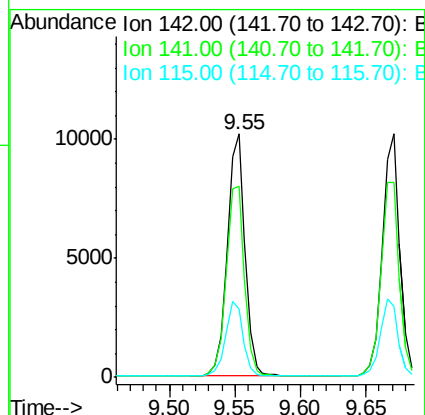
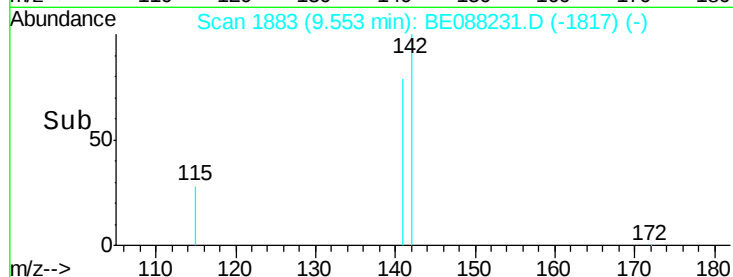
YS19-SS43-1014



Tgt Ion:	142	Resp:	9448
Ion Ratio	Lower	Upper	
142	100		
141	78.6	63.7	95.5
115	28.2	22.6	34.0

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#7

Acenaphthene-d10

Concen: 5.00 ng

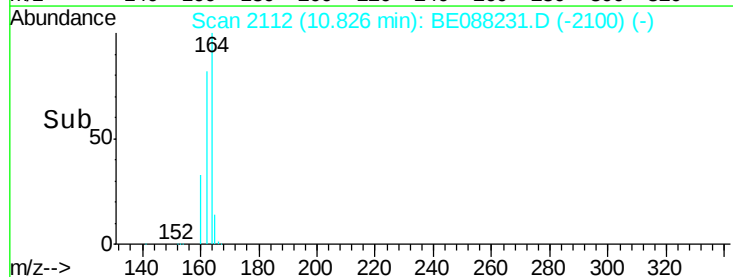
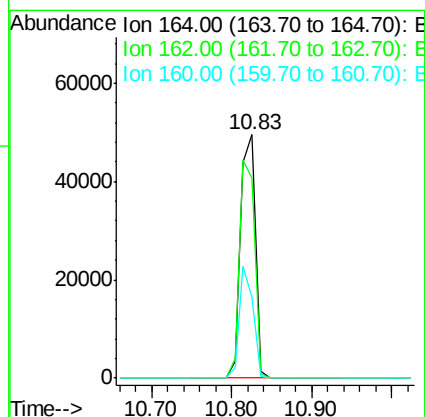
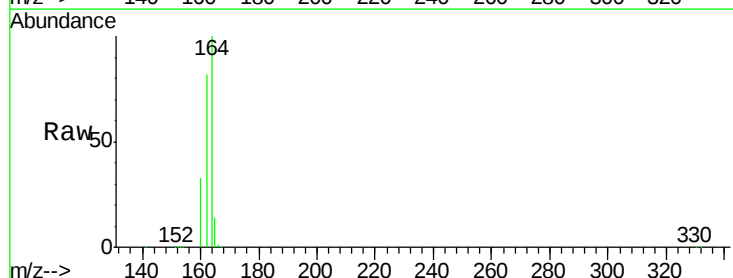
RT: 10.83 min Scan# 2112

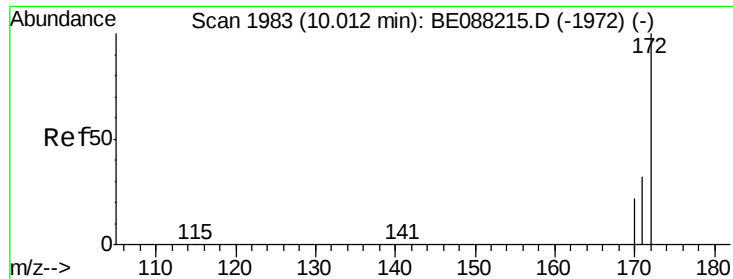
Delta R.T. 0.00 min

Lab File: BE088231.D

Acq: 25 Oct 2014 4:27

Tgt Ion:	164	Resp:	64868
Ion Ratio	Lower	Upper	
164	100		
162	82.3	67.4	101.0
160	33.0	27.7	41.5





#8

2-Fluorobiphenyl

Concen: 28.15 ng

RT: 10.02 min Scan# 1986

Delta R.T. 0.01 min

Lab File: BE088231.D

Acq: 25 Oct 2014 4:27

Instrument :

BNA_E

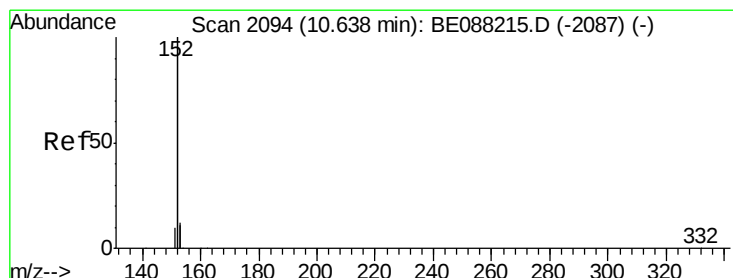
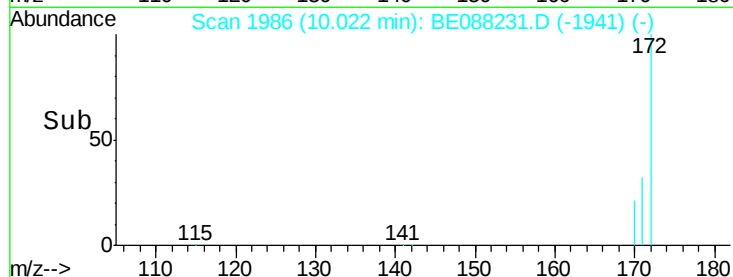
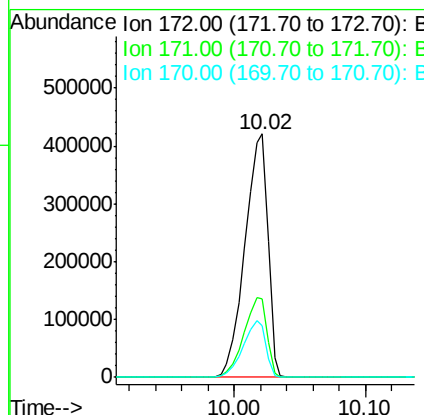
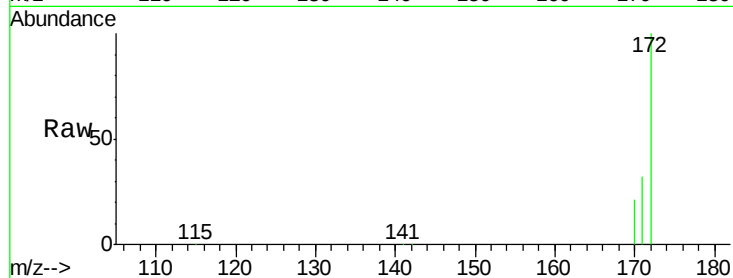
ClientSampleId :

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Tgt Ion:	172	Resp:	509162
Ion Ratio	Lower	Upper	
172	100		
171	32.2	25.8	38.6
170	21.2	17.4	26.0

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#9

Acenaphthylene

Concen: 0.79 ng

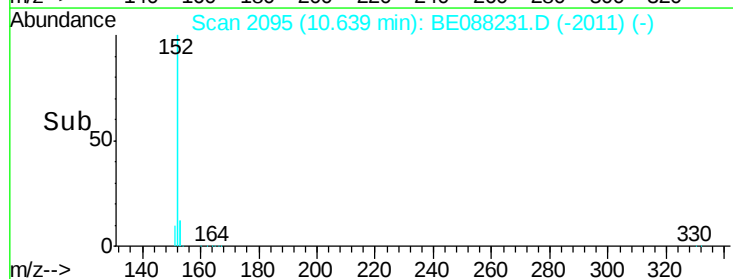
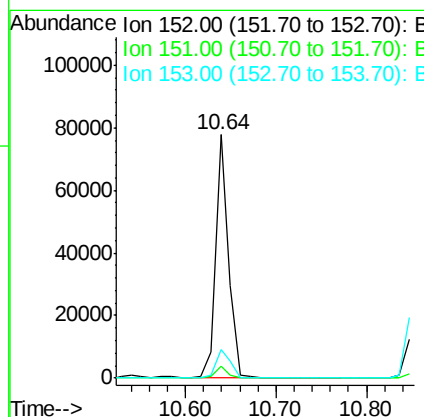
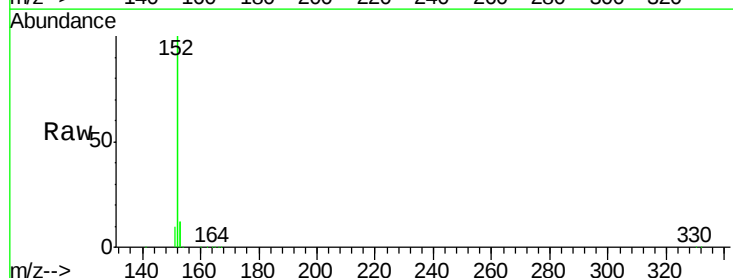
RT: 10.64 min Scan# 2095

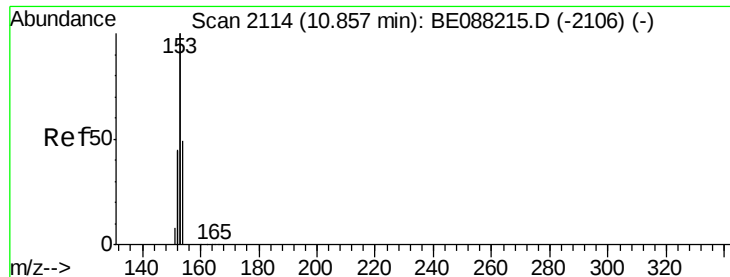
Delta R.T. 0.00 min

Lab File: BE088231.D

Acq: 25 Oct 2014 4:27

Tgt Ion:	152	Resp:	76568
Ion Ratio	Lower	Upper	
152	100		
151	4.6	3.7	5.5
153	13.0	10.3	15.5





#10

Acenaphthene

Concen: 0.82 ng

RT: 10.86 min Scan# 2115

Delta R.T. 0.00 min

Lab File: BE088231.D

Acq: 25 Oct 2014 4:27

Instrument :

BNA_E

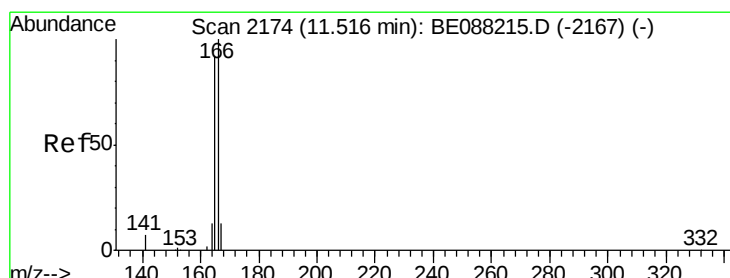
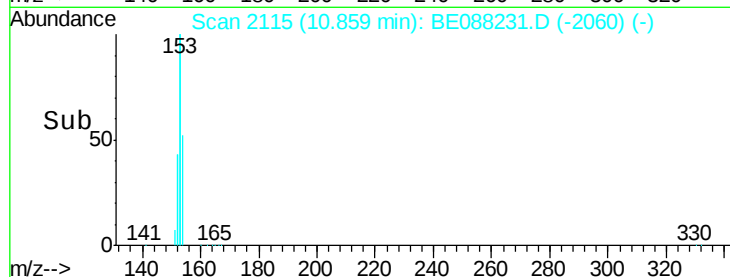
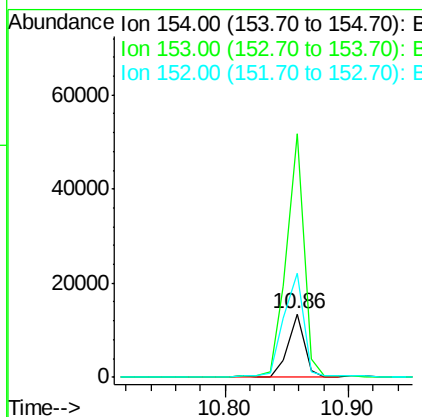
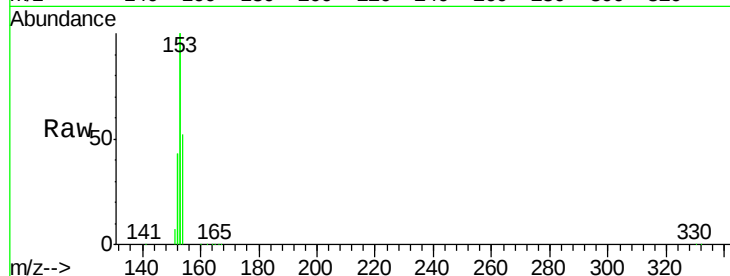
ClientSampleId :

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Tgt Ion	Ratio	Lower	Upper
154	100		
153	399.5	326.0	489.0
152	191.7	155.6	233.4



#11

Fluorene

Concen: 0.96 ng

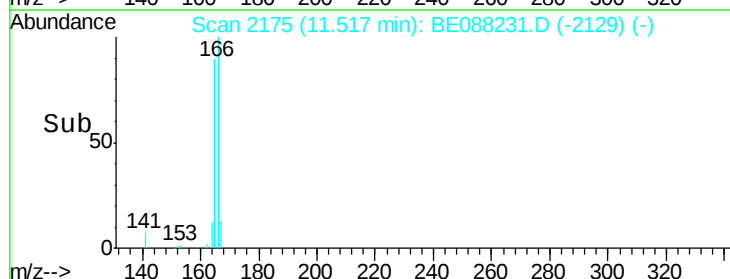
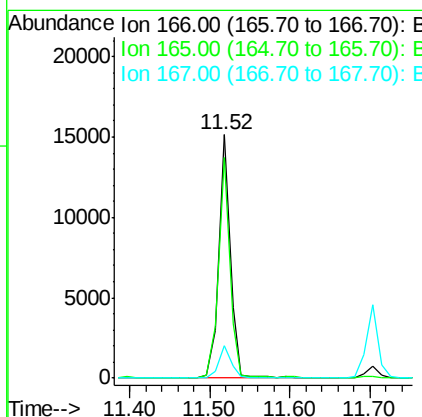
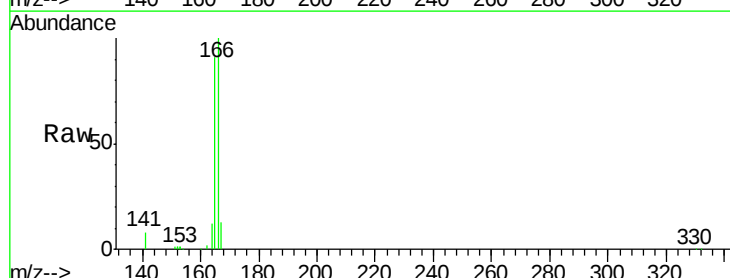
RT: 11.52 min Scan# 2175

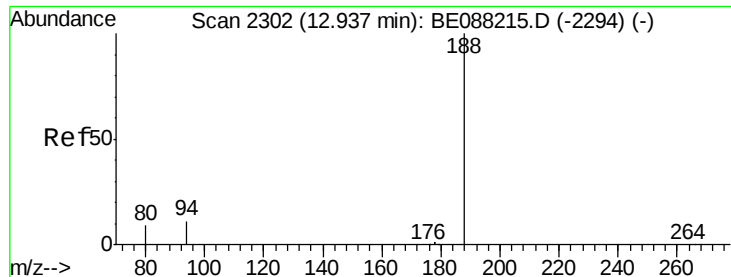
Delta R.T. 0.00 min

Lab File: BE088231.D

Acq: 25 Oct 2014 4:27

Tgt Ion	Ratio	Lower	Upper
166	100		
165	90.2	71.8	107.6
167	13.7	10.7	16.1





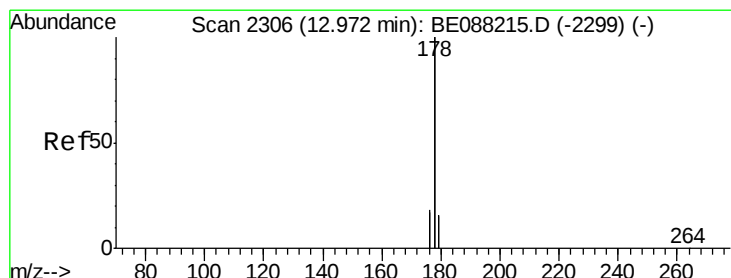
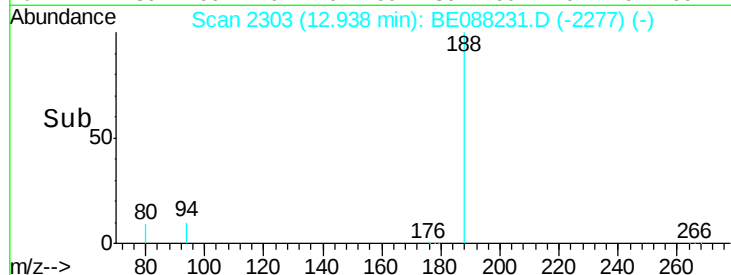
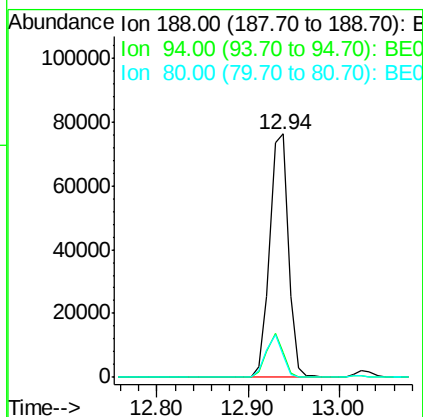
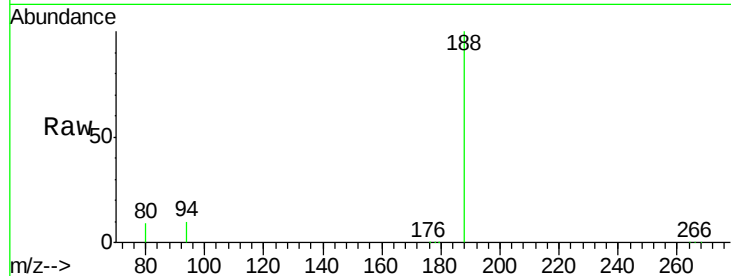
#12
Phenanthrene-d10
Concen: 5.00 ng
RT: 12.94 min Scan# 2303
Delta R.T. 0.00 min
Lab File: BE088231.D
Acq: 25 Oct 2014 4:27

Instrument :
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Tgt Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	10.2	8.5	12.7
80	9.0	7.4	11.0

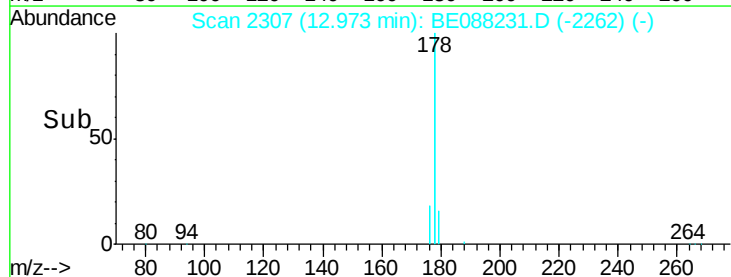
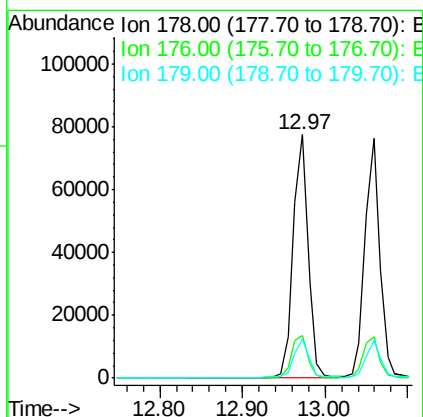
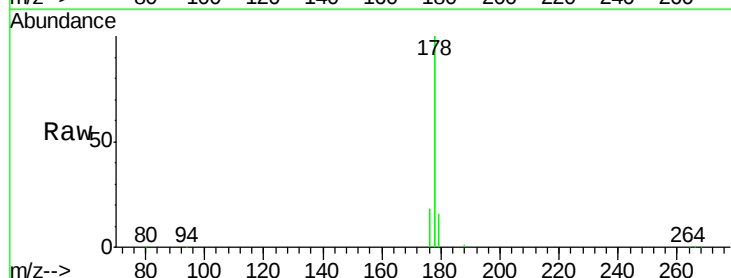
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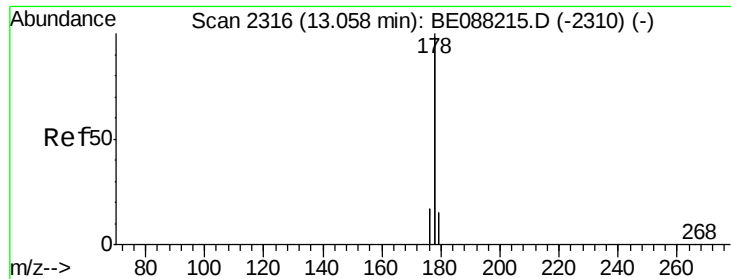
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#13
Phenanthrene
Concen: 0.90 ng
RT: 12.97 min Scan# 2307
Delta R.T. 0.00 min
Lab File: BE088231.D
Acq: 25 Oct 2014 4:27

Tgt Ion	Ratio	Resp Lower	Resp Upper
178	100		
176	20.0	14.0	21.0
179	17.5	11.8	17.6





#14

Anthracene

Concen: 1.00 ng

RT: 13.06 min Scan# 2317

Delta R.T. 0.00 min

Lab File: BE088231.D

Acq: 25 Oct 2014 4:27

Instrument :

BNA_E

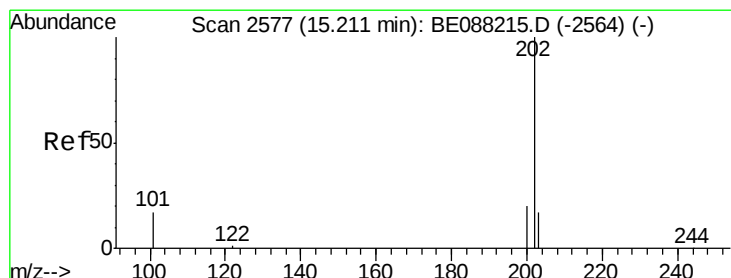
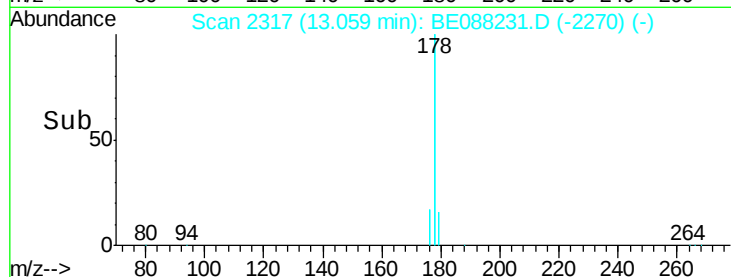
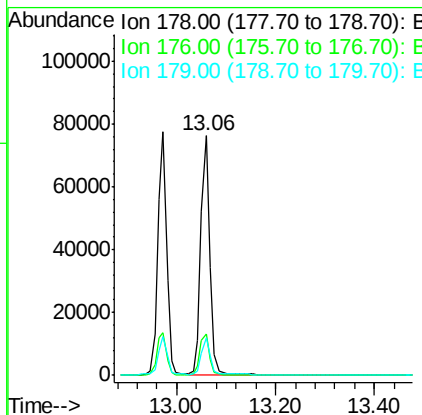
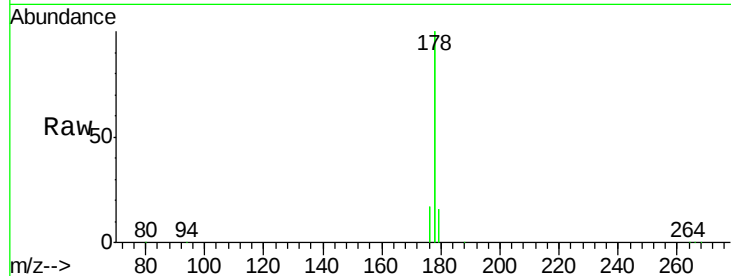
ClientSampleId :

YS19-SS43-1014

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Tgt Ion	Ratio	Lower	Upper
178	100		
176	17.9	14.7	22.1
179	15.4	12.3	18.5



#15

Fluoranthene

Concen: 1.13 ng

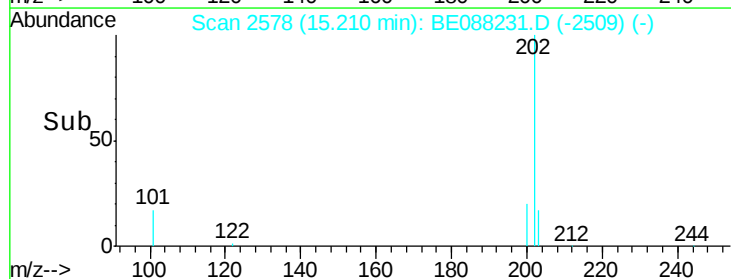
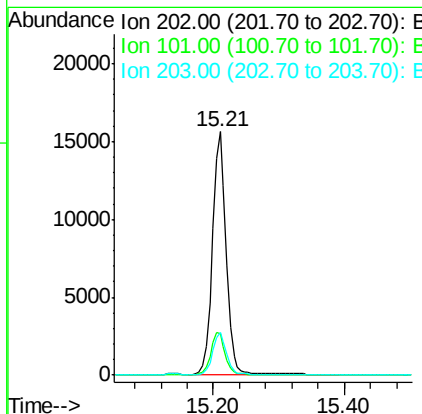
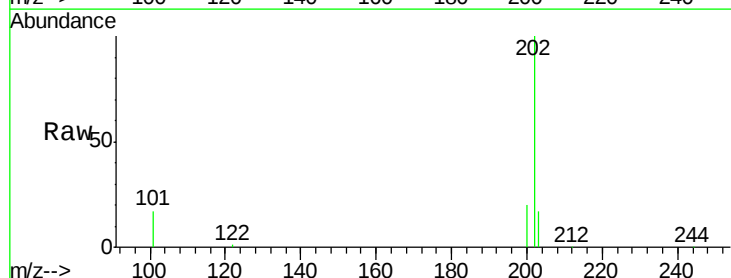
RT: 15.21 min Scan# 2578

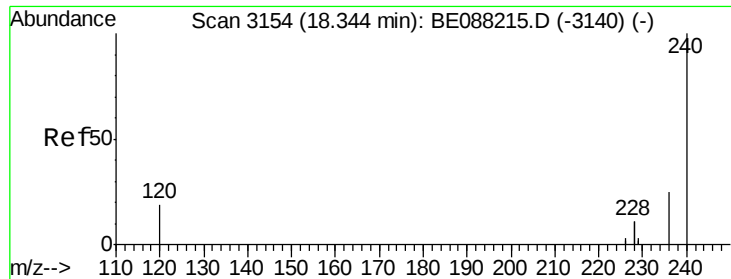
Delta R.T. -0.00 min

Lab File: BE088231.D

Acq: 25 Oct 2014 4:27

Tgt Ion	Ratio	Lower	Upper
202	100		
101	17.8	14.4	21.6
203	17.1	13.4	20.2





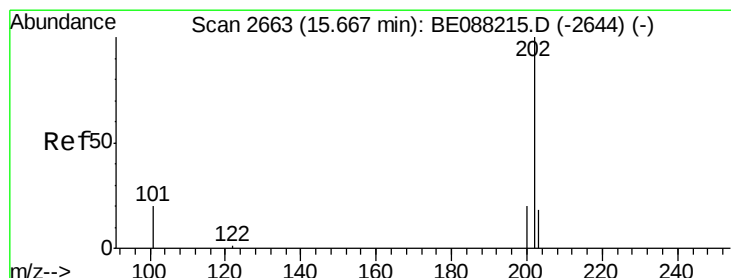
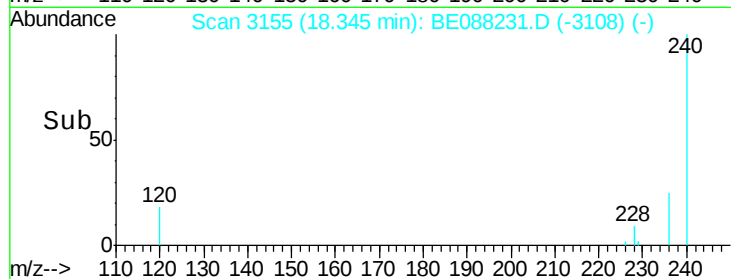
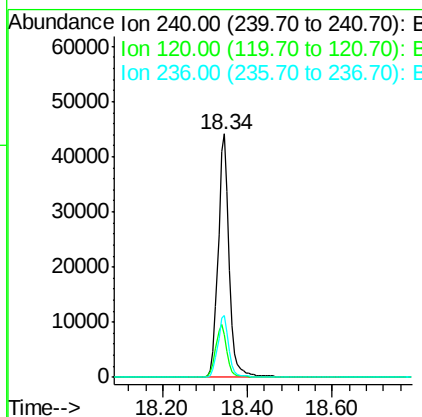
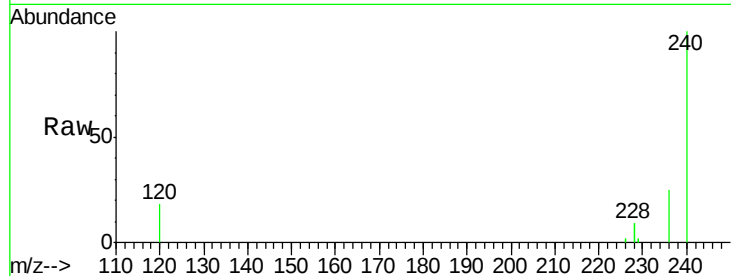
#16
Chrysene-d12
Concen: 5.00 ng
RT: 18.34 min Scan# 3155
Delta R.T. 0.00 min
Lab File: BE088231.D
Acq: 25 Oct 2014 4:27

Instrument :
BNA_E
ClientSampleId :
YS19-SS43-1014

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	79251		
120	17.8	15.1	22.7	
236	25.2	20.1	30.1	

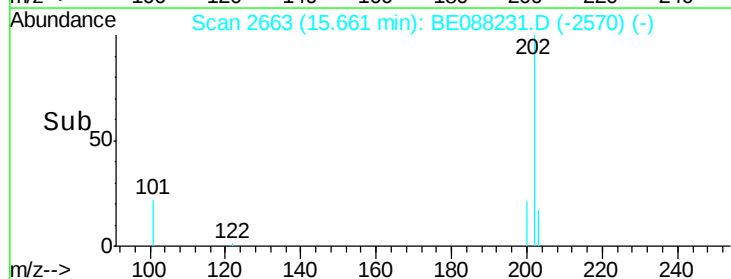
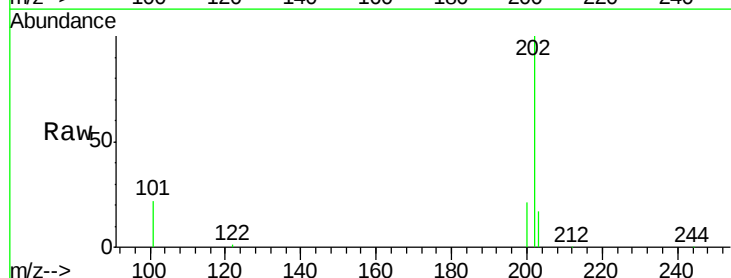
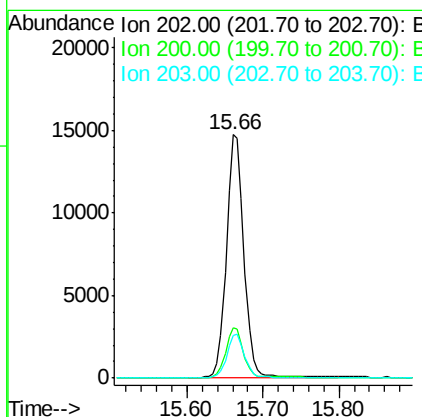
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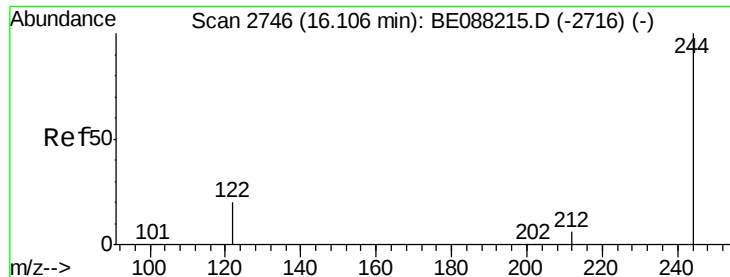
mohammad
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#17
Pyrene
Concen: 1.07 ng
RT: 15.66 min Scan# 2663
Delta R.T. -0.01 min
Lab File: BE088231.D
Acq: 25 Oct 2014 4:27

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	23281		
200	20.2	16.2	24.2	
203	17.6	13.8	20.8	





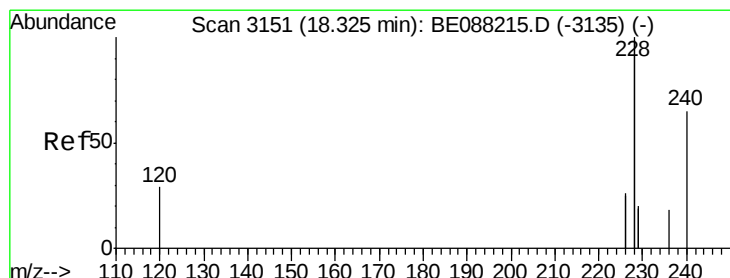
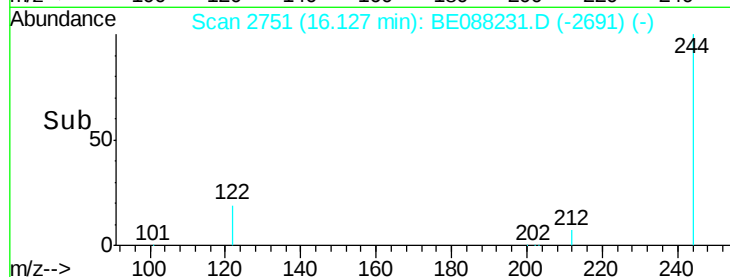
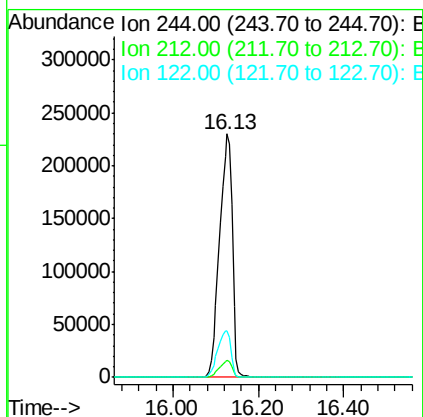
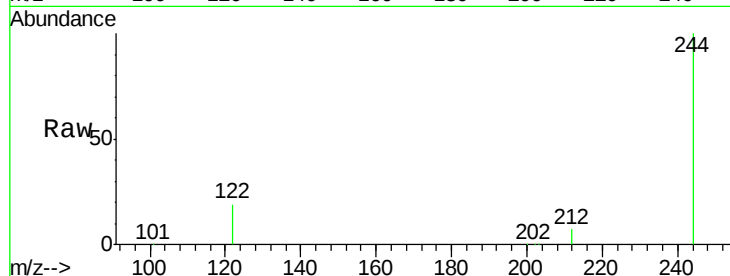
#18
 Terphenyl-d14
 Concen: 36.69 ng
 RT: 16.13 min Scan# 2751
 Delta R.T. 0.02 min
 Lab File: BE088231.D
 Acq: 25 Oct 2014 4:27

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS43-1014

Tgt Ion	Ratio	Resp	Lower	Upper
244	100	476154		
212	6.8	5.4	8.2	
122	19.4	16.7	25.1	

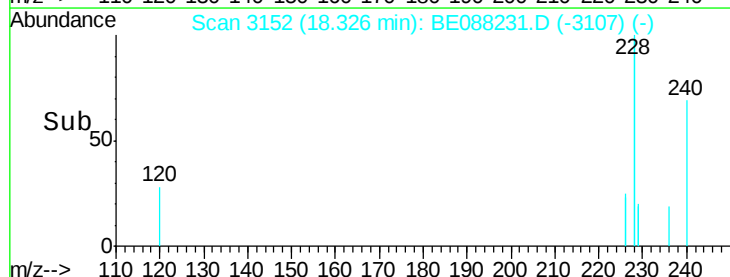
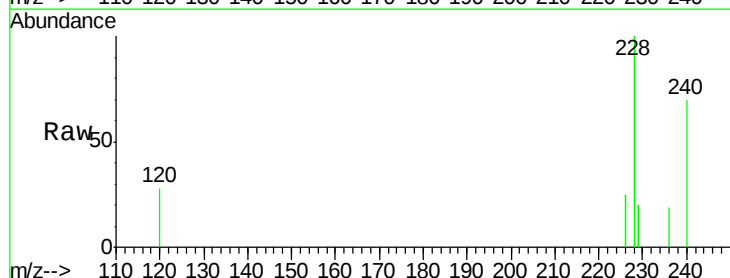
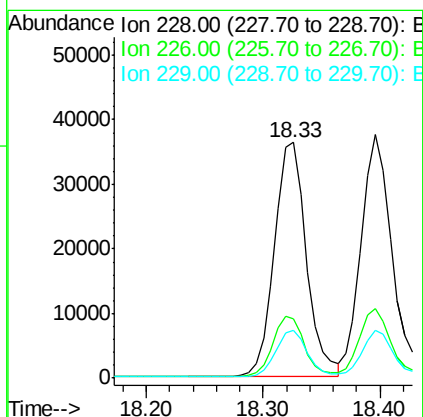
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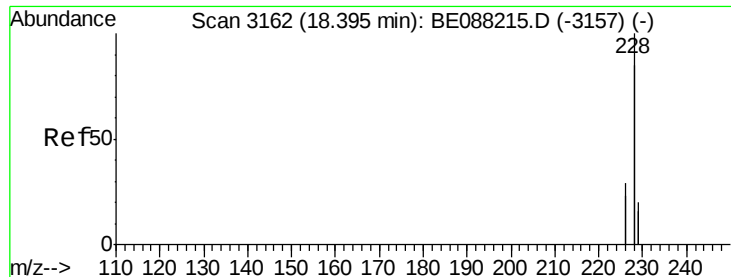
mohammad
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#19
 Benzo(a)anthracene
 Concen: 1.11 ng
 RT: 18.33 min Scan# 3152
 Delta R.T. 0.00 min
 Lab File: BE088231.D
 Acq: 25 Oct 2014 4:27

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	69497		
226	25.1	20.5	30.7	
229	20.0	16.1	24.1	





#20

Chrysene

Concen: 1.02 ng

RT: 18.40 min Scan# 3163

Delta R.T. 0.00 min

Lab File: BE088231.D

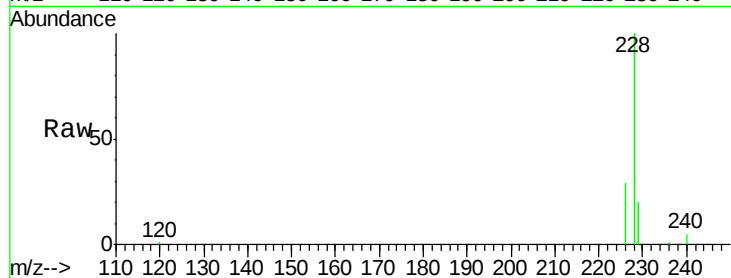
Acq: 25 Oct 2014 4:27

Instrument :

BNA_E

ClientSampleId :

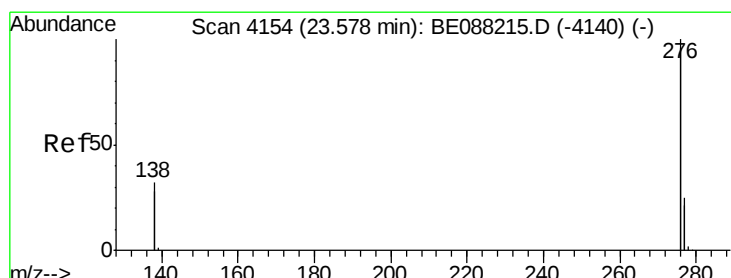
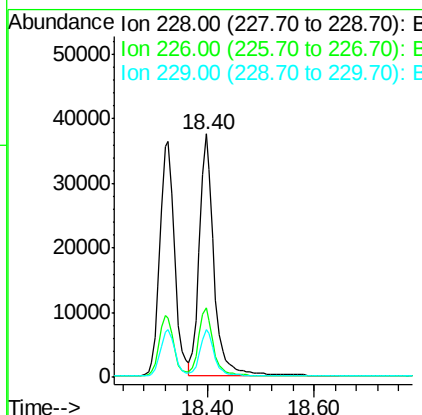
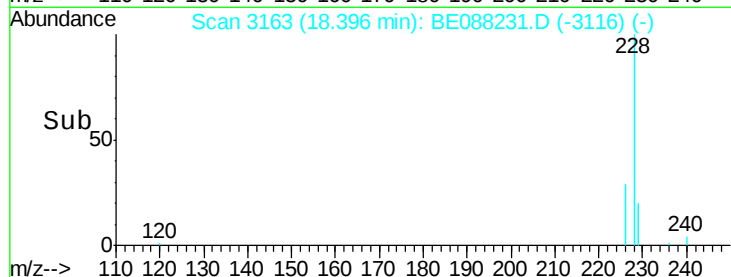
YS19-SS43-1014



Tgt Ion:	228	Resp:	71923
Ion Ratio	Lower	Upper	
228	100		
226	28.7	23.3	34.9
229	19.8	15.6	23.4

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#21

Indeno(1,2,3-cd)pyrene

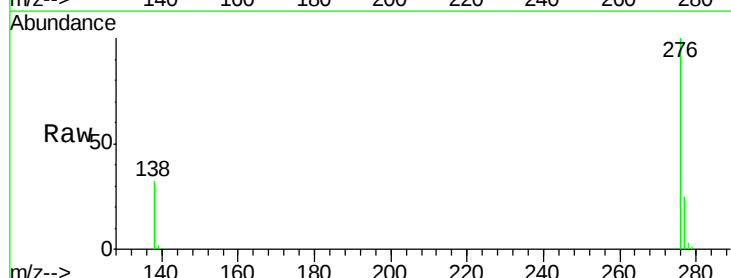
Concen: 0.79 ng m

RT: 23.57 min Scan# 4154

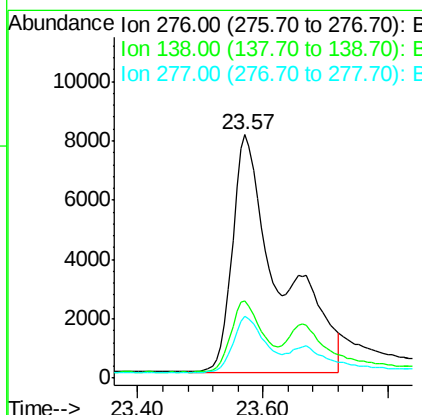
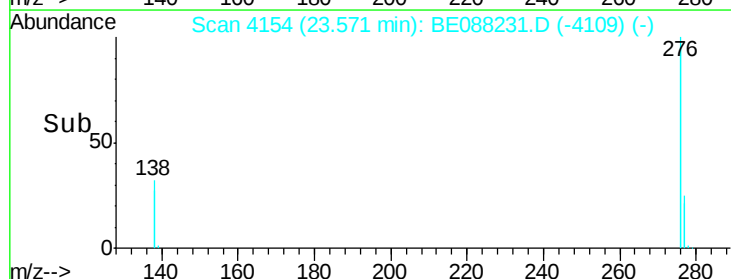
Delta R.T. -0.01 min

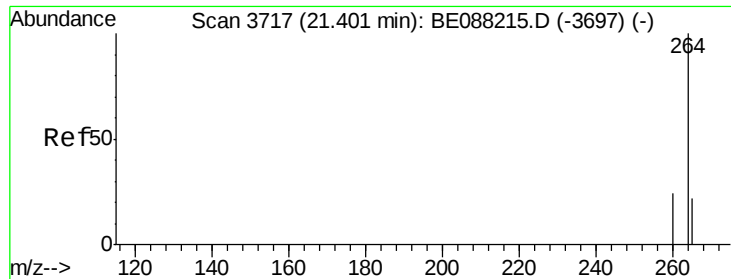
Lab File: BE088231.D

Acq: 25 Oct 2014 4:27



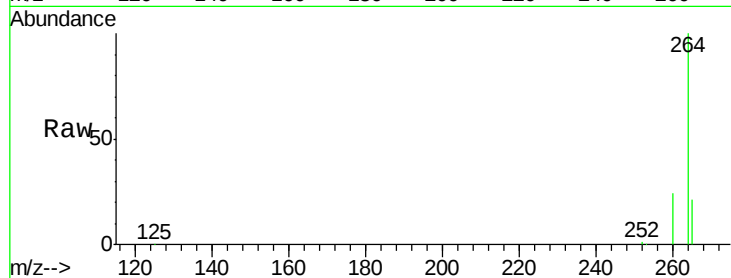
Tgt Ion:	276	Resp:	42679
Ion Ratio	Lower	Upper	
276	100		
138	20.0	13.9	20.9
277	15.9	10.7	16.1





#22
 Perylene-d12
 Concen: 5.00 ng
 RT: 21.40 min Scan# 3717
 Delta R.T. -0.00 min
 Lab File: BE088231.D
 Acq: 25 Oct 2014 4:27

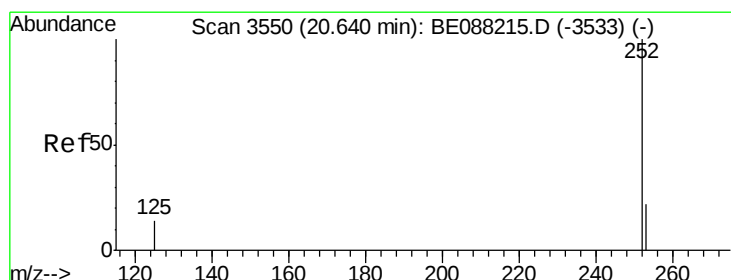
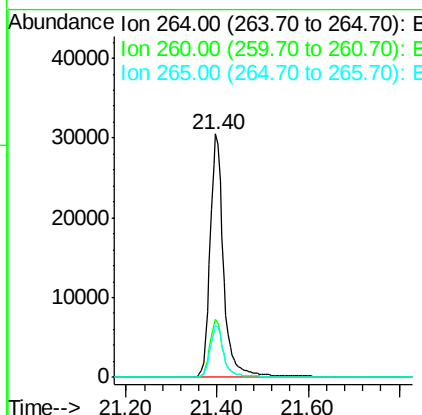
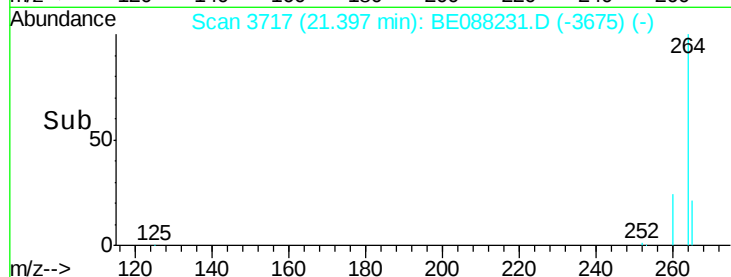
Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS43-1014



Tgt Ion: 264 Resp: 62027
 Ion Ratio Lower Upper
 264 100
 260 23.7 19.0 28.4
 265 21.4 17.4 26.2

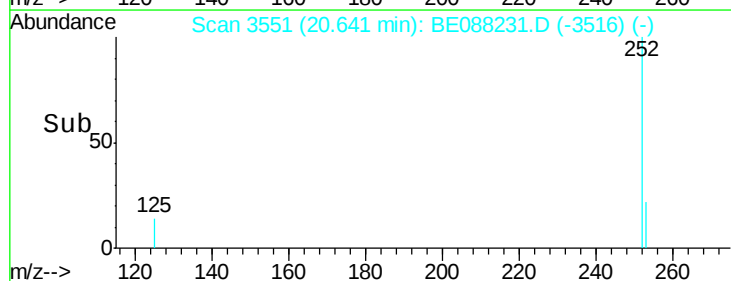
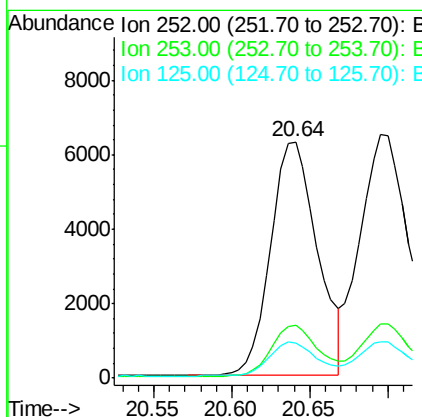
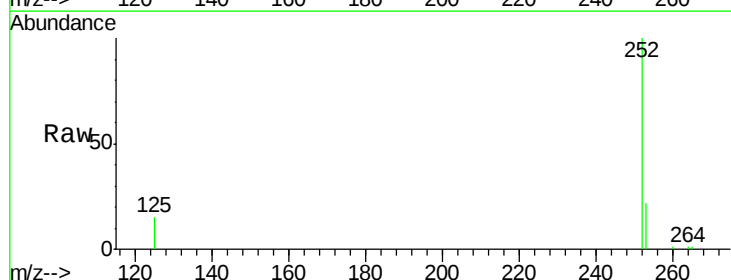
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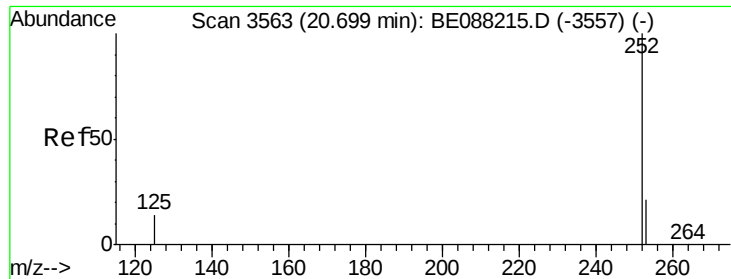
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#23
 Benzo(b)fluoranthene
 Concen: 1.13 ng
 RT: 20.64 min Scan# 3551
 Delta R.T. 0.00 min
 Lab File: BE088231.D
 Acq: 25 Oct 2014 4:27

Tgt Ion: 252 Resp: 13086
 Ion Ratio Lower Upper
 252 100
 253 22.3 17.9 26.9
 125 15.0 12.2 18.2





#24

Benzo(k)fluoranthene

Concen: 1.06 ng

RT: 20.70 min Scan# 3563

Delta R.T. -0.00 min

Lab File: BE088231.D

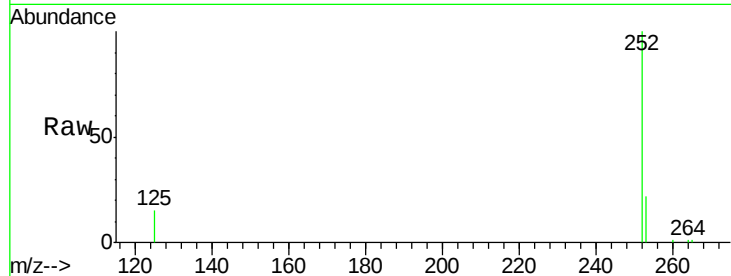
Acq: 25 Oct 2014 4:27

Instrument :

BNA_E

ClientSampleId :

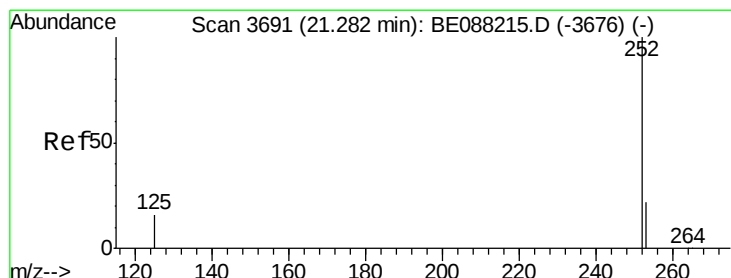
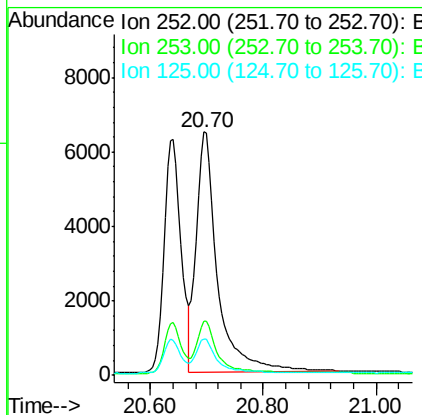
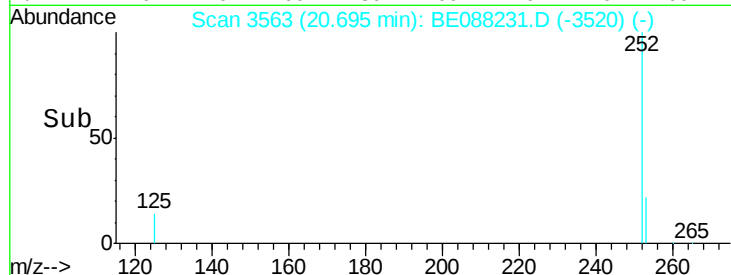
YS19-SS43-1014



Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.6	26.4
125	15.1	12.1	18.1

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#25

Benzo(a)pyrene

Concen: 1.07 ng

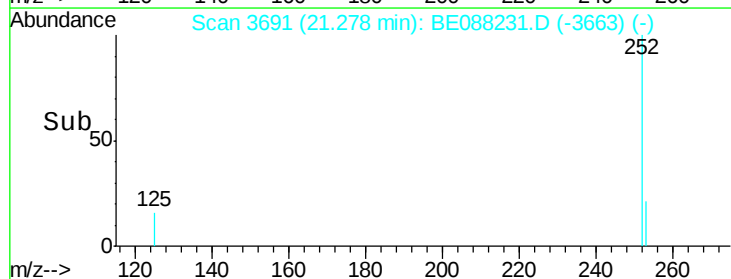
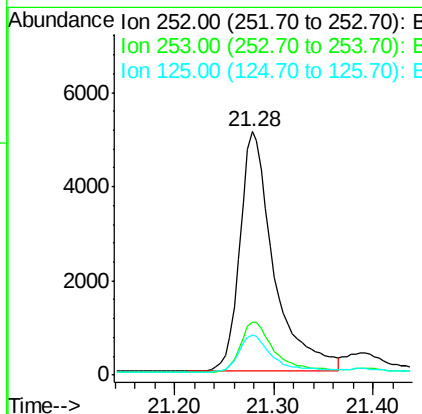
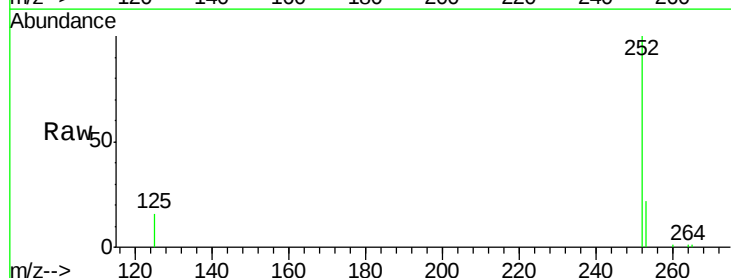
RT: 21.28 min Scan# 3691

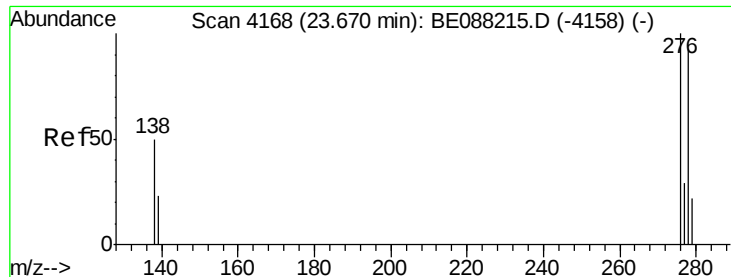
Delta R.T. -0.00 min

Lab File: BE088231.D

Acq: 25 Oct 2014 4:27

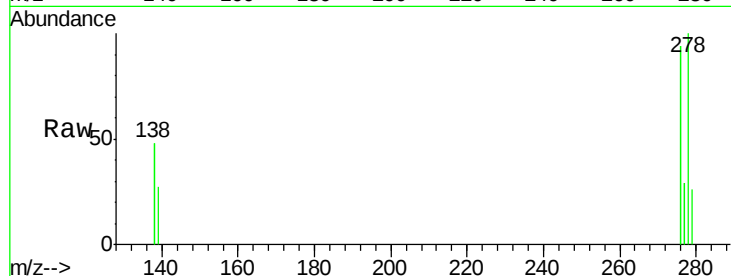
Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.8	26.8
125	16.5	13.5	20.3





#26
Dibenzo(a,h)anthracene
Concen: 0.86 ng
RT: 23.67 min Scan# 4169
Delta R.T. 0.00 min
Lab File: BE088231.D
Acq: 25 Oct 2014 4:27

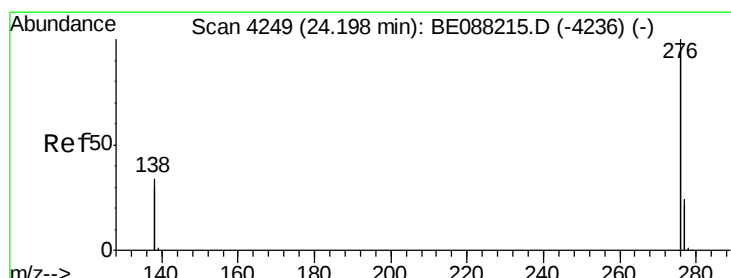
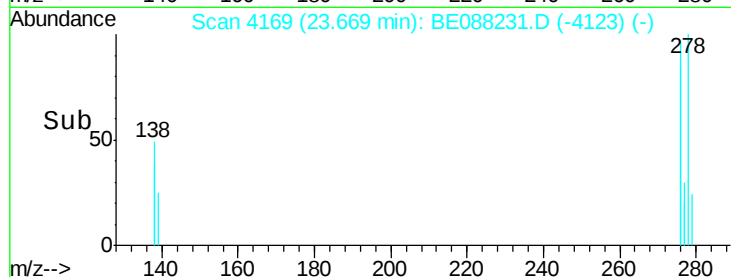
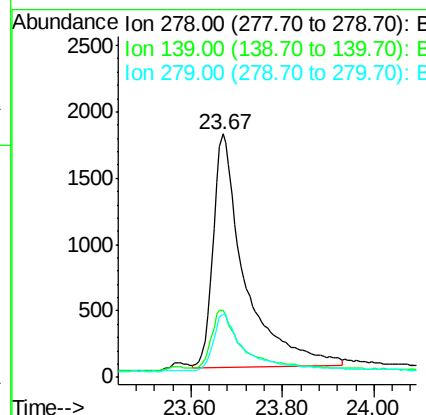
Instrument :
BNA_E
ClientSampleId :
YS19-SS43-1014



Tgt Ion	Ratio	Lower	Upper
278	100		
139	27.4	22.1	33.1
279	25.7	20.2	30.2

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#27
Benzo(g,h,i)perylene
Concen: 0.84 ng
RT: 24.19 min Scan# 4249
Delta R.T. -0.01 min
Lab File: BE088231.D
Acq: 25 Oct 2014 4:27

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.4	19.4	29.2
138	34.8	27.3	40.9

